


**ADDENDUM 001  
REQUEST FOR BIDS  
PORTABLE TRAFFIC SIGNAL  
RFB # 5-110321AS1**

Bidders should acknowledge receipt of Addendum 001 (ONE) by signing and including it with the original bid. The due date for receipt of bids remains unchanged by this Addendum. Accordingly, the following clarifications, questions and answers are believed to be of general interest to all potential Bidders. All other terms and conditions remain unchanged and in full force.

Name and Title of Signer (Print or type)	Name and Title of Department Authority  Angela Sutton Intermediate Procurement Agent
Bidder/Offeror Signature	Department of Transportation  
(Signature of person authorized to sign)	(Authorizing Signature)
Date Signed:	Date Signed: March 4, 2011

1. Please help clarify what is meant by REMOTE. I think what you are asking for is something that can be controlled from a central location where video feeds of Traffic come in. I think you are also requesting that someone could be at the light and change the timing without opening the control cabinet.
  - A. Remote means the ability to change the timing without "opening the control cabinet and having to change the timing via the keypad on the traffic controller." One reason for necessitating the remote is to have the ability to override the signal in order to flush queues instantaneously.
2. Please advise how the system is to be powered. What time duration are they looking to operate the unit. The battery capacity can be 2or3 batteries that would operate the unit for at least 7 days or it could be a trailer with 16 batteries and solar panels that would let the unit stay out indefinitely.
  - A. Our planned field tests will last a few hours at a time. So a battery that could operate the unit for multiple days is adequate.
3. Do you have any specifics in regards to the product(s) that should be submitted for the pre-approval? Is MODOT looking for a mast system PTS or a single pull behind setup?

**MISSOURI DEPARTMENT OF TRANSPORTATION**  
**Portable Traffic System**

**Request No. 2-110321AS1**

- A. **No, products must meet the specifications at a minimum. MoDOT is looking for a single portable traffic system.**
- 4. Does the following mean a hand held remote control from the job location or accessible from a PC through the internet from a any remote location? "The Portable Traffic Signal system controller shall provide communication from the end user to the Portable Traffic Signal system from a remote location in the field, as real time changes may need to be made via remote control. Thus, the Portable Traffic Signal system shall be able to be monitored and controlled from a remote location or in the field at the sign location with a remote controller."
- A. **A hand held device is adequate. It is important to have the ability to temporarily have the indication stay on green in order to flush any queues.**
- 5. Same question as above, does the following mean a hand held remote control from the job location or accessible from a PC through the internet from a any remote location? "The end user shall have the ability of programming the traffic controller in order to change the cycle length and the split, and to temporarily extend the green time via the remote control in order to flush any ramp queues."
- A. **The programming of the controller can be done in the cabinet. The remote control function is to extend the green time.**
- 6. If it is a hand held remote then what are the parameters, meaning within what distance does the remote control have to communicate with the trailers? For instance, within 1000ft, 1500ft, 1 mile?
- A. **A short distance is adequate for the remote control; it is not necessary for the remote to operate 1000 ft away.**
- 7. **LED signal lamp dimensions:** MUTCD requires a 12" diameter for the red LED indication  
**Signal head mounting height:** typically, a signal head mounted on the side of the road must have a mounting height between 8 and 9 feet measured from the bottom of the signal housing  
**Runtime:** Strictly battery powered or with battery and solar assist?
- A. **The equipment must meet current MUTCD specifications. This equipment is not for a temporary intersection signal or automated flagging, it is for experimental purposes. Runtime: Battery powered.**
- 8. Need to show AASHTO Wind Load Standards
- A. **"Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals" is available from AASHTO. Meeting AASHTO requirements will meet our specifications related to wind load: "The performance of all Portable Traffic Signal system components shall not be impaired due to vibration caused by wind, traffic or normal transportation."**
- 9. Will the signal be use as temp signal after the test or is it just for Ramp Metering (Needs to have a controller and one trailer needs to match to MODOT fleet )
- A. **The equipment is being procured for a ramp metering application. To my knowledge, there are no other plans for this temporary signal. Matching other MoDOT equipment is not a requirement from my perspective.**
- 10. We can make a system just for ramp metering and can rent as well as sale it
- A. **The bid is for purchase not rental.**
- 11. Is MODOT looking for a mast system PTS or a single pull behind setup. Either one would meet the specs stipulated.
- A. **MoDOT is only looking for a single setup.**